**SEQUENCE LISTING**

<110> Hubert Köster
Daniel Paul Little
Suhaib Mahmood Siddiqi
Mattew Peter Grealish
Subramaniam Marappan
Chester Frederick Hassman III
Ping Yip

<120> Capture Compounds, Collections Thereof And Methods For Analyzing The Proteome And Complex Compositions

<130> 24743-2309

<140> Not Yet Assigned
<141> Herewith

<150> 60/441,398
<151> 2003-01-16

<160> 149

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 39
<212> PRT
<213> Homo Sapien

<400> 1
Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys
1 5 10 15
Arg Arg Pro Val Lys Val Tyr Pro Asn Gly Ala Glu Asp Glu Ser Ala
20 25 30
Glu Ala Phe Pro Leu Glu Phe
35

<210> 2
<211> 52
<212> PRT
<213> Homo Sapien

<400> 2
Tyr Arg Gln Ser Met Asn Asn Phe Gln Gly Leu Arg Ser Phe Gly Cys
1 5 10 15
Arg Phe Gly Thr Cys Thr Val Gln Lys Leu Ala His Gln Ile Tyr Gln
20 25 30
Phe Thr Asp Lys Asp Lys Asp Asn Val Ala Pro Arg Ser Lys Ile Ser
35 40 45
Pro Gln Gly Tyr
50

<210> 3
<211> 13
<212> PRT
<213> Homo Sapien

<400> 3
Ala Pro Ser Gly Ala Gln Arg Leu Tyr Gly Phe Gly Leu
1 5 10

<210> 4
<211> 13
<212> PRT
<213> Homo Sapien

<400> 4
Trp Gly Lys Pro Val Ser Tyr Ser Met Glu His Phe Arg
 1               5                  10

<210> 5
<211> 9
<212> PRT
<213> Homo Sapien

<400> 5
Ala Pro Arg Glu Arg Phe Tyr Ser Glu
 1               5

<210> 6
<211> 10
<212> PRT
<213> Homo Sapien

<400> 6
Tyr Gly Gly Phe Leu Arg Lys Tyr Pro Lys
 1               5                  10

<210> 7
<211> 14
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 14

<221> MOD_RES
<222> 1
<223> Xaa is pyroglutamic acid

<400> 7
Xaa Gly Arg Leu Gly Thr Gln Trp Ala Val Gly His Leu Met
 1               5                  10

<210> 8
<211> 37
<212> PRT
<213> Homo Sapien

<400> 8
Lys Cys Asn Thr Ala Thr Cys Ala Thr Asn Arg Leu Ala Asn Phe Leu
 1               5                  10                  15
Val His Ser Ser Asn Asn Phe Gly Ala Ile Leu Ser Ser Thr Asn Val
            20                  25                  30
Gly Ser Asn Thr Tyr
        35

<210> 9
<211> 10
<212> PRT
<213> Homo Sapien

<400> 9
Asp Arg Val Tyr Ile His Pro Phe His Leu
 1               5                  10

<210> 10
<211> 8
<212> PRT
<213> Homo Sapien

<400> 10
Asp Arg Val Tyr Ile His Pro Phe
 1               5

<210> 11
<211> 7
<212> PRT
<213> Homo Sapien

<400> 11
Arg Val Tyr Ile His Pro Phe
 1               5

<210> 12
<211> 13
<212> PRT
<213> Homo Sapien

<400> 12
Asn Arg Pro Arg Leu Ser His Leu Gly Pro Met Pro Phe
 1               5                  10

<210> 13
<211> 29
<212> PRT
<213> Homo Sapien

<220>

<221> MOD_RES
<222> 1
<223> Xaa is D-Phe

<221> MOD_RES
<222> 10
<223> Nle

<221> MOD_RES
<222> 26
<223> Nle

<400> 13
Xaa His Leu Leu Arg Glu Val Leu Glu Xaa Ala Arg Ala Glu Gln Leu
 1               5                  10                  15
Ala Gln Glu Ala His Lys Asn Arg Leu Xaa Glu Ile Ile
            20                  25

<210> 14
<211> 28
<212> PRT
<213> Homo Sapien

<400> 14

Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly
1 5 10 15
Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr
20 25

<210> 15
<211> 13
<212> PRT
<213> Homo Sapien

<400> 15
Lys Lys Ala Leu Arg Arg Gln Glu Thr Val Asp Ala Leu
1 5 10

<210> 16
<211> 12
<212> PRT
<213> Homo Sapien

<400> 16
Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu
1 5 10

<210> 17
<211> 14
<212> PRT
<213> Homo Sapien

<400> 17
Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu Trp Trp
1 5 10

<210> 18
<211> 12
<212> PRT
<213> Homo Sapien

<400> 18
Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu
1 5 10

<210> 19
<211> 31
<212> PRT
<213> Homo Sapien

<400> 19
Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr
1 5 10 15
Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala Tyr Lys Lys Gly Glu
20 25 30

<210> 20
<211> 22
<212> PRT
<213> Homo Sapien

<400> 20
Ala Glu Lys Lys Asp Glu Gly Pro Tyr Arg Met Glu His Phe Arg Trp
1 5 10 15
Gly Ser Pro Pro Lys Asp

20

<210> 21
<211> 9
<212> PRT
<213> Homo Sapien

<400> 21
Tyr Gly Gly Phe Leu Arg Lys Tyr Pro
1 5

<210> 22
<211> 43
<212> PRT
<213> Homo Sapien

<400> 22
Asp Ala Glu Phe Arg His Ala Ser Gly Tyr Glu Val His His Gln Lys
1 5 10 15
Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Leu Gly Ala Ile Ile
20 25 30
Gly Leu Met Val Gly Gly Val Val Ile Ala Thr
35 40

<210> 23
<211> 5
<212> PRT
<213> Homo Sapien

<400> 23
Arg Leu Arg Phe His
1 5

<210> 24
<211> 32
<212> PRT
<213> Homo Sapien

<400> 24
Ser Pro Lys Met Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp
1 5 10 15
Arg Ile Ser Ser Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg His
20 25 30

<210> 25
<211> 9
<212> PRT
<213> Homo Sapien

<400> 25
Arg Pro Pro Gly Phe Ser Pro Phe Arg
1 5

<210> 26
<211> 11
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION

<222> 11

<400> 26
Gly Met Asp Ser Leu Ala Phe Ser Gly Gly Leu
 1               5                  10

<210> 27
<211> 3
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 3

<400> 27
Lys His Gly
 1

<210> 28
<211> 11
<212> PRT
<213> Homo Sapien

<400> 28
Ala Ser Lys Lys Pro Lys Arg Asn Ile Lys Ala
 1               5                  10

<210> 29
<211> 10
<212> PRT
<213> Homo Sapien

<220>

<221> MOD_RES
<222> 4
<223> Tyrosine-SO3H

<221> MOD_RES
<222> 1
<223> Xaa is pyroglutamic acid

<400> 29
Xaa Gln Asp Xaa Thr Gly Trp Met Asp Phe
 1               5                  10

<210> 30
<211> 28
<212> PRT
<213> Homo Sapien

<400> 30
Ala Ile Pro Ile Thr Ser Phe Glu Glu Ala Lys Gly Leu Asp Arg Ile
 1               5                  10                  15
Asn Glu Arg Met Pro Pro Arg Arg Asp Ala Met Pro
            20                  25

<210> 31
<211> 32
<212> PRT

<213> Homo Sapien

<400> 31
Cys Gly Asn Leu Ser Thr Cys Met Leu Gly Thr Tyr Thr Gln Asp Phe
 1               5                  10                  15
Asn Lys Phe His Thr Phe Pro Gln Thr Ala Ile Gly Val Gly Ala Pro
            20                  25                  30

<210> 32
<211> 27
<212> PRT
<213> Homo Sapien

<400> 32
Asp Pro Met Ser Ser Thr Tyr Ile Glu Glu Leu Gly Lys Arg Glu Val
 1               5                  10                  15
Thr Ile Pro Pro Lys Tyr Arg Glu Leu Leu Ala
            20                  25

<210> 33
<211> 25
<212> PRT
<213> Homo Sapien

<400> 33
Asn Gln Gly Arg His Phe Cys Gly Gly Ala Glu Ile His Ala Arg Phe
 1               5                  10                  15
Val Met Thr Ala Ala Ser Cys Phe Asn
            20                  25

<210> 34
<211> 30
<212> PRT
<213> Homo Sapien

<400> 34
Asn Pro Met Tyr Asn Ala Val Ser Asn Ala Asp Leu Met Asp Phe Lys
 1               5                  10                  15
Asn Leu Leu Asp His Leu Glu Glu Lys Met Pro Leu Glu Asp
            20                  25                  30

<210> 35
<211> 18
<212> PRT
<213> Homo Sapien

<400> 35
Cys Asn Leu Ala Val Ala Ala Ala Ser His Ile Tyr Gln Asn Gln Phe
 1               5                  10                  15
Val Gln

<210> 36
<211> 35
<212> PRT
<213> Homo Sapien

<400> 36
Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Met Gly Arg Asn Ile Arg
 1               5                  10                  15
Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly Glu Ala
            20                  25                  30

Lys Ala Leu
35

<210> 37
<211> 16
<212> PRT
<213> Homo Sapien

<400> 37
Ser Gly Ser Ala Lys Val Ala Phe Ser Ala Ile Arg Ser Thr Asn His
1 5 10 15

<210> 38
<211> 37
<212> PRT
<213> Homo Sapien

<400> 38
Ala Cys Asp Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu
1 5 10 15
Ser Arg Ser Gly Gly Val Val Lys Asn Asn Phe Val Pro Thr Asn Val
20 25 30
Gly Ser Lys Ala Phe
35

<210> 39
<211> 37
<212> PRT
<213> Homo Sapien

<400> 39
Ala Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu
1 5 10 15
Ser Arg Ser Gly Gly Met Val Lys Ser Asn Phe Val Pro Thr Asn Val
20 25 30
Gly Ser Lys Ala Phe
35

<210> 40
<211> 17
<212> PRT
<213> Homo Sapien

<400> 40
Leu Gln Asn Arg Arg Gly Leu Asp Leu Leu Phe Leu Lys Glu Gly Gly
1 5 10 15
Leu

<210> 41
<211> 29
<212> PRT
<213> Homo Sapien

<400> 41
Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro
1 5 10 15
Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys
20 25

<210> 42

<211> 2
<212> PRT
<213> Homo Sapien

<400> 42
Trp Gly
 1

<210> 43
<211> 30
<212> PRT
<213> Homo Sapien

<400> 43
Ala Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr
 1               5                  10                  15
Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
            20                  25                  30

<210> 44
<211> 29
<212> PRT
<213> Homo Sapien

<400> 44
Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr Gly
 1               5                  10                  15
Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
            20                  25

<210> 45
<211> 33
<212> PRT
<213> Homo Sapien

<400> 45
Ala Leu Trp Lys Thr Met Leu Lys Lys Leu Gly Thr Met Ala Leu His
 1               5                  10                  15
Ala Gly Lys Ala Ala Leu Gly Ala Ala Ala Asp Thr Ile Ser Gln Thr
            20                  25                  30
Gln

<210> 46
<211> 17
<212> PRT
<213> Homo Sapien

<400> 46
Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn
 1               5                  10                  15
Gln

<210> 47
<211> 13
<212> PRT
<213> Homo Sapien

<400> 47
Tyr Gly Gly Phe Leu Arg Arg Gln Phe Lys Val Val Thr
 1               5                  10

<210> 48
<211> 11
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 11

<221> MOD_RES
<222> 1
<223> Xaa is pyroglutamic acid

<400> 48
Xaa Pro Ser Lys Asp Ala Phe Ile Gly Leu Met
 1               5                  10

<210> 49
<211> 4
<212> PRT
<213> Homo Sapien

<400> 49
Tyr Pro Trp Phe
 1

<210> 50
<211> 4
<212> PRT
<213> Homo Sapien

<400> 50
Tyr Pro Phe Phe
 1

<210> 51
<211> 21
<212> PRT
<213> Homo Sapien

<400> 51
Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Cys His
 1               5                  10                  15
Leu Asp Ile Ile Trp
            20

<210> 52
<211> 39
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 39

<400> 52
His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1               5                  10                  15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
            20                  25                  30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 53
<211> 17
<212> PRT
<213> Homo Sapien

<400> 53
Ala Ala Asp Ser Gly Glu Gly Asp Phe Leu Ala Glu Gly Gly Gly Val
1 5 10 15
Arg

<210> 54
<211> 15
<212> PRT
<213> Homo Sapien

<400> 54
Asx Gln Gly Val Asn Asp Asn Glu Glu Gly Phe Phe Ser Ala Arg
1 5 10 15

<210> 55
<211> 8
<212> PRT
<213> Homo Sapien

<400> 55
Glu Ile Leu Asp Val Pro Ser Thr
1 5

<210> 56
<211> 4
<212> PRT
<213> Homo Sapien

<400> 56
Phe Met Arg Phe
1

<210> 57
<211> 30
<212> PRT
<213> Homo Sapien

<400> 57
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Val
1 5 10 15
Gly Asn His Arg Ser Phe Ser Asp Lys Asn Gly Leu Thr Ser
20 25 30

<210> 58
<211> 20
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 20

<400> 58
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Gln Gln Phe
 1               5                  10                  15
Phe Gly Leu Met
            20

<210> 59
<211> 5
<212> PRT
<213> Homo Sapien

<400> 59
Arg Leu Arg Phe Asp
 1               5

<210> 60
<211> 17
<212> PRT
<213> Homo Sapien

<400> 60
Glu Gly Pro Trp Leu Glu Glu Glu Glu Glu Ala Tyr Gly Trp Met Asp
 1               5                  10                  15
Phe

<210> 61
<211> 27
<212> PRT
<213> Homo Sapien

<400> 61
Val Pro Leu Pro Ala Gly Gly Gly Thr Val Leu Thr Lys Met Tyr Pro
 1               5                  10                  15
Arg Gly Asn His Trp Ala Val Gly His Leu Met
            20                  25

<210> 62
<211> 28
<212> PRT
<213> Homo Sapien

<400> 62
Gly Ser Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1               5                  10                  15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
            20                  25

<210> 63
<211> 42
<212> PRT
<213> Homo Sapien

<400> 63
Tyr Ala Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Ala Met Asp Lys
 1               5                  10                  15
Ile His Gln Gln Asp Phe Val Asn Trp Leu Leu Ala Gln Lys Gly Lys
            20                  25                  30
Lys Asn Asp Trp Lys His Asn Ile Thr Gln
        35                  40

<210> 64
<211> 29
<212> PRT
<213> Homo Sapien

<400> 64
His Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Ser
 1               5                  10                  15
Arg Arg Ala Gln Asp Phe Val Asp Trp Leu Met Asn Thr
            20                  25


<210> 65
<211> 20
<212> PRT
<213> Homo Sapien

<400> 65
Arg Arg Phe Ala Cys Asp Pro Asp Gly Tyr Asp Asn Tyr Phe His Cys
 1               5                  10                  15
Val Pro Gly Gly
            20


<210> 66
<211> 20
<212> PRT
<213> Homo Sapien

<400> 66
Thr Gly Ser Trp Cys Gly Leu Met His Tyr Asp Asn Ala Trp Leu Cys
 1               5                  10                  15
Asn Thr Gln Gly
            20


<210> 67
<211> 20
<212> PRT
<213> Homo Sapien

<400> 67
Arg Ser Lys Trp Cys Arg Asp Gly Tyr Tyr Ala Asn Tyr Pro Gln Cys
 1               5                  10                  15
Trp Thr Gln Gly
            20


<210> 68
<211> 20
<212> PRT
<213> Homo Sapien

<400> 68
Arg Ser Thr Leu Cys Trp Phe Glu Gly Tyr Asp Asn Thr Phe Pro Cys
 1               5                  10                  15
Lys Tyr Phe Arg
            20


<210> 69
<211> 20
<212> PRT
<213> Homo Sapien

<400> 69
Arg Val Gln Glu Cys Lys Tyr Leu Tyr Tyr Asp Asn Asp Tyr Leu Cys

1 5 10 15
Lys Asp Asp Gly
20

<210> 70
<211> 20
<212> PRT
<213> Homo Sapien

<400> 70
Gly Leu Arg Arg Cys Leu Tyr Gly Pro Tyr Asp Asn Ala Trp Val Cys
1 5 10 15
Asn Ile His Glu
20

<210> 71
<211> 20
<212> PRT
<213> Homo Sapien

<400> 71
Lys Leu Phe Trp Cys Thr Tyr Glu Asp Tyr Ala Asn Glu Trp Pro Cys
1 5 10 15
Pro Gly Tyr Ser
20

<210> 72
<211> 20
<212> PRT
<213> Homo Sapien

<400> 72
Phe Cys Ala Val Cys Asn Glu Glu Leu Tyr Glu Asn Cys Gly Gly Cys
1 5 10 15
Ser Cys Gly Lys
20

<210> 73
<211> 20
<212> PRT
<213> Homo Sapien

<400> 73
Arg Thr Ser Pro Cys Gly Tyr Ile Gly Tyr Asp Asn Ile Phe Glu Cys
1 5 10 15
Thr Tyr Leu Gly
20

<210> 74
<211> 20
<212> PRT
<213> Homo Sapien

<400> 74
Thr Gly Glu Trp Cys Ala Gln Ser Val Tyr Ala Asn Tyr Asp Asn Cys
1 5 10 15
Lys Ser Ala Trp
20

<210> 75
<211> 20

<212> PRT
<213> Homo Sapien

<400> 75
Asn Val Ser Arg Cys Thr Tyr Ile His Tyr Asp Asn Trp Ser Leu Cys
 1               5                  10                  15
Gly Val Glu Val
            20

<210> 76
<211> 20
<212> PRT
<213> Homo Sapien

<400> 76
Gly Val Ser Asn Cys Val Phe Trp Gly Tyr Ala Asn Asp Trp Leu Cys
 1               5                  10                  15
Ser Asp Tyr Ser
            20

<210> 77
<211> 44
<212> PRT
<213> Homo Sapien

<400> 77
Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln
 1               5                  10                  15
Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg Gln Gln Gly
            20                  25                  30
Glu Ser Asn Gln Glu Arg Gly Ala Arg Ala Arg Leu
        35                  40

<210> 78
<211> 15
<212> PRT
<213> Homo Sapien

<400> 78
Pro Gly Thr Cys Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
 1               5                  10                  15

<210> 79
<211> 35
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 35

<400> 79
His Ser Asp Ala Ile Phe Thr Glu Glu Tyr Ser Lys Leu Leu Ala Lys
 1               5                  10                  15
Leu Ala Leu Gln Lys Tyr Leu Ala Ser Ile Leu Gly Ser Arg Thr Ser
            20                  25                  30
Pro Pro Pro
        35

<210> 80
<211> 38

<212> PRT
<213> Homo Sapien

<400> 80
His Ser Asp Ala Thr Phe Thr Ala Glu Tyr Ser Lys Leu Leu Ala Lys
 1               5                  10                  15
Leu Ala Leu Gln Lys Tyr Leu Glu Ser Ile Leu Gly Ser Ser Thr Ser
            20                  25                  30
Pro Arg Pro Pro Ser Ser
        35

<210> 81
<211> 37
<212> PRT
<213> Homo Sapien

<400> 81
His Ser Asp Ala Thr Phe Thr Ala Glu Tyr Ser Lys Leu Leu Ala Lys
 1               5                  10                  15
Leu Ala Leu Gln Lys Tyr Leu Glu Ser Ile Leu Gly Ser Ser Thr Ser
            20                  25                  30
Pro Arg Pro Pro Ser
        35

<210> 82
<211> 24
<212> PRT
<213> Homo Sapien

<400> 82
Asp Ser His Ala Lys Arg His His Gly Tyr Lys Arg Lys Phe His Glu
 1               5                  10                  15
Lys His His Ser His Arg Gly Tyr
            20

<210> 83
<211> 4
<212> PRT
<213> Homo Sapien

<220>

<221> ACETYLATION
<222> 1

<221> MOD RES
<222> 4
<223> Xaa is Aspartic acid-fluroacetylmethylketone

<400> 83
Tyr Val Ala Xaa
 1

<210> 84
<211> 6
<212> PRT
<213> Homo Sapien

<400> 84
Val Glu Pro Ile Pro Tyr
 1               5

<210> 85
<211> 21
<212> PRT
<213> Homo Sapien

<400> 85
Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu
 1               5                  10                  15
Glu Asn Tyr Cys Asn
            20

<210> 86
<211> 30
<212> PRT
<213> Homo Sapien

<400> 86
Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
 1               5                  10                  15
Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr
            20                  25                  30

<210> 87
<211> 51
<212> PRT
<213> Homo Sapien

<400> 87
Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu
 1               5                  10                  15
Glu Asn Tyr Cys Asn Phe Val Asn Gln His Leu Cys Gly Ser His Leu
            20                  25                  30
Val Glu Ala Leu Tyr Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr
        35                  40                  45
Pro Lys Thr
    50

<210> 88
<211> 9
<212> PRT
<213> Homo Sapien

<400> 88
Ile Ala Arg Arg His Pro Tyr Phe Leu
 1               5

<210> 89
<211> 5
<212> PRT
<213> Homo Sapien

<400> 89
Tyr Gly Gly Phe Leu
 1               5

<210> 90
<211> 9
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 9

<221> MOD_RES
<222> 1
<223> Xaa is pyroglutamic acid

<400> 90
Xaa Gln Trp Ala Val Gly His Phe Met
 1               5

<210> 91
<211> 14
<212> PRT
<213> Homo Sapien

<400> 91
Arg Thr Lys Arg Ser Gly Ser Val Tyr Glu Pro Leu Lys Ile
 1               5                  10

<210> 92
<211> 5
<212> PRT
<213> Homo Sapien

<400> 92
Tyr Gly Gly Phe Met
 1               5

<210> 93
<211> 9
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 9

<400> 93
Tyr Gly Gly Gly Phe Met Arg Arg Val
 1               5

<210> 94
<211> 22
<212> PRT
<213> Homo Sapien

<400> 94
Phe Val Pro Ile Phe Thr Tyr Gly Glu Leu Gln Arg Met Gln Glu Lys
 1               5                  10                  15
Glu Arg Asn Lys Gly Gln
            20

<210> 95
<211> 9
<212> PRT
<213> Homo Sapien

<400> 95
Pro Met Ser Met Leu Arg Leu Asn His
 1               5

<210> 96
<211> 13
<212> PRT
<213> Homo Sapien

<400> 96
Ile Pro Lys Lys Arg Ala Ala Arg Ala Thr Ser Asn His
 1               5                  10


<210> 97
<211> 6
<212> PRT
<213> Homo Sapien

<400> 97
Gly Ala Val Ser Thr Ala
 1               5

<210> 98
<211> 10
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 10

<400> 98
His Lys Thr Asp Ser Phe Val Gly Leu Met
 1               5                  10


<210> 99
<211> 10
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 10

<400> 99
Asp Met His Asp Phe Phe Val Gly Leu Met
 1               5                  10

<210> 100
<211> 10
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 10

<400> 100
Gly Asn Leu Trp Ala Thr Gly His Phe Met
 1               5                  10


<210> 101

<211> 36
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 36

<400> 101
Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
 1               5                  10                  15
Met Ala Arg Tyr Tyr Ser Ala Lys Arg His Tyr Ile Asn Leu Ile Thr
            20                  25                  30
Arg Gln Arg Tyr
        35


<210> 102
<211> 12
<212> PRT
<213> Homo Sapien

<220>

<221> MOD_RES
<222> 1
<223> Xaa is pyroglutamic acid

<400> 102
Xaa Leu Tyr Glu Asn Lys Pro Arg Arg Pro Ile Leu
 1               5                  10


<210> 103
<211> 17
<212> PRT
<213> Homo Sapien

<400> 103
Phe Gly Gly Phe Thr Gly Ala Arg Lys Ser Ala Arg Lys Leu Ala Asn
 1               5                  10                  15
Gln


<210> 104
<211> 31
<212> PRT
<213> Homo Sapien

<400> 104
Phe Ala Glu Pro Leu Pro Ser Glu Glu Glu Gly Glu Ser Tyr Ser Lys
 1               5                  10                  15
Glu Val Pro Glu Met Glu Lys Arg Tyr Gly Gly Phe Met Arg Phe
            20                  25                  30


<210> 105
<211> 6
<212> PRT
<213> Homo Sapien

<400> 105
Glu Gln Lys Gln Leu Gln
 1               5

<210> 106
<211> 33
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 33

<221> MOD_RES
<222> 1
<223> Xaa is pyroglutamic acid

<400> 106
Xaa Pro Leu Pro Asp Cys Cys Arg Gln Lys Thr Cys Ser Cys Arg Leu
 1               5                  10                  15
Tyr Glu Leu Leu His Gly Ala Gly Asn His Ala Ala Gly Ile Leu Thr
            20                  25                  30
Leu

<210> 107
<211> 28
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 28

<400> 107
Arg Ser Gly Pro Pro Gly Leu Gln Gly Arg Leu Gln Arg Leu Leu Gln
 1               5                  10                  15
Ala Ser Gly Asn His Ala Ala Gly Ile Leu Thr Met
            20                  25

<210> 108
<211> 49
<212> PRT
<213> Homo Sapien

<400> 108
Tyr Leu Tyr Gln Trp Leu Gly Ala Pro Val Pro Tyr Pro Asp Pro Leu
 1               5                  10                  15
Glu Pro Arg Arg Glu Val Cys Glu Leu Asn Pro Asp Cys Asp Glu Leu
            20                  25                  30
Ala Asp His Ile Gly Phe Gln Glu Ala Tyr Arg Arg Phe Tyr Gly Pro
        35                  40                  45
Val

<210> 109
<211> 11
<212> PRT
<213> Homo Sapien

<400> 109
Cys Tyr Ile Gln Asn Cys Pro Leu Gly Asn His
 1               5                  10

<210> 110

<211> 27
<212> PRT
<213> Homo Sapien

<400> 110
His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
 1               5                  10                  15
Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
            20                  25

<210> 111
<211> 29
<212> PRT
<213> Homo Sapien

<400> 111
Asp Val Ala His Gly Ile Leu Asn Glu Ala Tyr Arg Lys Val Leu Asp
 1               5                  10                  15
Gln Leu Ser Ala Gly Lys His Leu Gln Ser Leu Val Ala
            20                  25

<210> 112
<211> 38
<212> PRT
<213> Homo Sapien

<400> 112
Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln
 1               5                  10                  15
Met Ala Gln Tyr Ala Ala Asp Leu Arg Arg Tyr Ile Asn Met Leu Thr
            20                  25                  30
Arg Pro Arg Tyr Asn His
        35

<210> 113
<211> 4
<212> PRT
<213> Homo Sapien

<400> 113
Gly Gly Tyr Arg
 1

<210> 114
<211> 12
<212> PRT
<213> Homo Sapien

<400> 114
Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu
 1               5                  10

<210> 115
<211> 36
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 36

<400> 115
Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
 1               5                  10                  15
Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
            20                  25                  30
Arg Gln Arg Tyr
        35

<210> 116
<211> 9
<212> PRT
<213> Homo Sapien

<400> 116
Arg Arg Lys Ala Ser Gly Pro Pro Val
 1               5

<210> 117
<211> 11
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 11

<221> MOD_RES
<222> 1
<223> Xaa is pyroglutamic acid

<400> 117
Xaa Ala Asp Pro Asn Lys Phe Tyr Gly Leu Met
 1               5                  10

<210> 118
<211> 11
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 11

<221> MOD_RES
<222> 1
<223> Xaa is pyroglutamic acid

<400> 118
Xaa Val Pro Gln Trp Ala Val Gly His Phe Met
 1               5                  10

<210> 119
<211> 5
<212> PRT
<213> Homo Sapien

<220>

<221> UNSURE
<222> 1,5
<223> Xaa is a variable

<400> 119
Xaa Arg Gly Asp Xaa
 1               5

<210> 120
<211> 4
<212> PRT
<213> Homo Sapien

<400> 120
Gly Gln Pro Arg
 1

<210> 121
<211> 13
<212> PRT
<213> Homo Sapien

<400> 121
Arg Arg Leu Ile Glu Asp Ala Glu Tyr Ala Ala Arg Gly
 1               5                  10

<210> 122
<211> 5
<212> PRT
<213> Homo Sapien

<400> 122
Arg Pro Thr Val Leu
 1               5

<210> 123
<211> 27
<212> PRT
<213> Homo Sapien

<400> 123
His Ser Asp Gly Thr Phe Thr Ser Glu Leu Ser Arg Leu Arg Glu Gly
 1               5                  10                  15
Ala Arg Leu Gln Arg Leu Leu Gln Gly Leu Val
            20                  25

<210> 124
<211> 9
<212> PRT
<213> Homo Sapien

<220>

<221> MOD_RES
<222> 1
<223> Xaa is pyroglutamic acid

<400> 124
Xaa Ala Lys Ser Gln Gly Gly Ser Asn
 1               5

<210> 125
<211> 19
<212> PRT
<213> Homo Sapien

<400> 125
Pro Gln Cys Gly Lys Cys Arg Ile Cys Lys Asn Pro Glu Ser Asn Tyr
 1               5                  10                  15
Cys Leu Lys

<210> 126
<211> 19
<212> PRT
<213> Homo Sapien

<400> 126
Pro Gln Cys Gly Lys Cys Arg Val Cys Lys Asn Pro Glu Ser Asn Tyr
 1               5                  10                  15
Cys Leu Lys

<210> 127
<211> 19
<212> PRT
<213> Homo Sapien

<400> 127
Pro Gln Cys Gly Lys Cys Arg Ile Cys Lys Asn Pro Glu Ser Asn Tyr
 1               5                  10                  15
Cys Leu Lys

<210> 128
<211> 19
<212> PRT
<213> Homo Sapien

<400> 128
Pro Leu Cys Arg Lys Cys Lys Phe Cys Leu Ser Pro Leu Thr Asn Leu
 1               5                  10                  15
Cys Gly Lys

<210> 129
<211> 18
<212> PRT
<213> Homo Sapien

<400> 129
Pro Gln Gly Glu Cys Lys Phe Cys Leu Asn Pro Lys Thr Asn Leu Cys
 1               5                  10                  15
Gln Lys

<210> 130
<211> 11
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 11

<400> 130
Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met

1 5 10

<210> 131
<211> 15
<212> PRT
<213> Homo Sapien

<400> 131
Pro Leu Ala Arg Thr Leu Ser Val Ala Gly Leu Pro Gly Lys Lys
1 5 10 15

<210> 132
<211> 18
<212> PRT
<213> Homo Sapien

<400> 132
Ala Val Gln Ser Lys Pro Pro Ser Lys Arg Asp Pro Pro Lys Met Gln
1 5 10 15
Thr Asp

<210> 133
<211> 36
<212> PRT
<213> Homo Sapien

<400> 133
Thr Phe Gly Ser Gly Glu Ala Asp Cys Gly Leu Arg Pro Leu Phe Glu
1 5 10 15
Lys Lys Ser Leu Glu Asp Lys Thr Glu Arg Glu Leu Leu Glu Ser Tyr
20 25 30
Ile Asp Gly Arg
35

<210> 134
<211> 5
<212> PRT
<213> Homo Sapien

<400> 134
Arg Lys Asp Val Tyr
1 5

<210> 135
<211> 9
<212> PRT
<213> Homo Sapien

<400> 135
Gln Ala Lys Ser Gln Gly Gly Ser Asn
1 5

<210> 136
<211> 3
<212> PRT
<213> Homo Sapien

<220>

<221> MOD_RES

<222> 1
<223> Xaa is pyroglutamic acid

<400> 136
Xaa His Pro
 1

<210> 137
<211> 4
<212> PRT
<213> Homo Sapien

<400> 137
Thr Lys Pro Arg
 1

<210> 138
<211> 11
<212> PRT
<213> Homo Sapien

<220>

<221> AMIDATION
<222> 11

<221> MOD_RES
<222> 1
<223> Xaa is pyroglutamic acid

<400> 138
Xaa Pro Asp Pro Asn Ala Phe Tyr Gly Leu Met
 1               5                  10

<210> 139
<211> 5
<212> PRT
<213> Homo Sapien

<400> 139
Asp Leu Trp Gln Lys
 1               5

<210> 140
<211> 40
<212> PRT
<213> Homo Sapien

<400> 140
Asp Asn Pro Ser Leu Ser Ile Asp Leu Thr Phe His Leu Leu Arg Thr
 1               5                  10                  15
Leu Leu Glu Leu Ala Arg Thr Gln Ser Gln Arg Glu Arg Ala Glu Gln
            20                  25                  30
Asn Arg Ile Ile Phe Asp Ser Val
        35                  40

<210> 141
<211> 16
<212> PRT
<213> Homo Sapien

<400> 141

Asn Asp Asp Cys Glu Leu Cys Val Asn Val Ala Cys Thr Gly Cys Leu
1 5 10 15

<210> 142
<211> 27
<212> PRT
<213> Homo Sapien

<400> 142
Gly Leu Ser Lys Gly Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser
1 5 10 15
Met Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr
20 25

<210> 143
<211> 9
<212> PRT
<213> Homo Sapien

<400> 143
Cys Tyr Phe Gln Asn Cys Pro Arg Gly
1 5

<210> 144
<211> 9
<212> PRT
<213> Homo Sapien

<400> 144
Cys Tyr Ile Gln Asn Cys Pro Arg Gly
1 5

<210> 145
<211> 28
<212> PRT
<213> Homo Sapien

<400> 145
His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15
Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn
20 25

<210> 146
<211> 25
<212> PRT
<213> Homo Sapien

<400> 146
Met Leu Thr Lys Phe Glu Thr Lys Ser Ala Arg Val Lys Gly Leu Ser
1 5 10 15
Phe His Pro Lys Arg Pro Trp Ile Leu
20 25

<210> 147
<211> 3
<212> PRT
<213> Homo Sapien

<220>

<221> UNSURE
<222> 2
<223> Xaa is a variable

<400> 147
Tyr Xaa Asn
 1

<210> 148
<211> 9
<212> PRT
<213> Homo Sapien

<400> 148
Phe Gln Phe His Phe His Trp Gly Ser
 1               5

<210> 149
<211> 11
<212> PRT
<213> Homo Sapien

<400> 149
Ile Ile Ile Gln Phe His Phe His Trp Gly Ser
 1               5                  10